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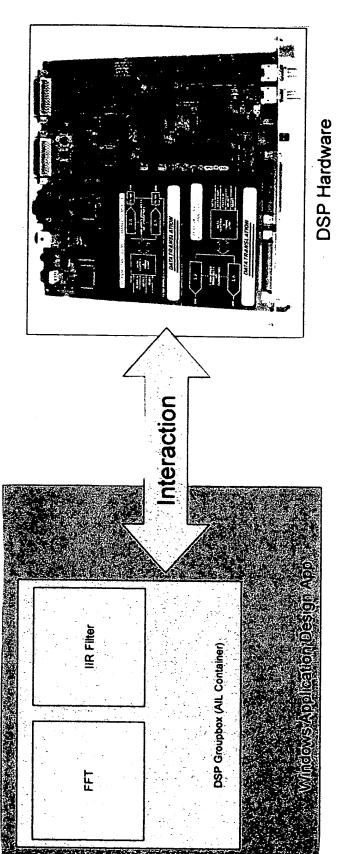
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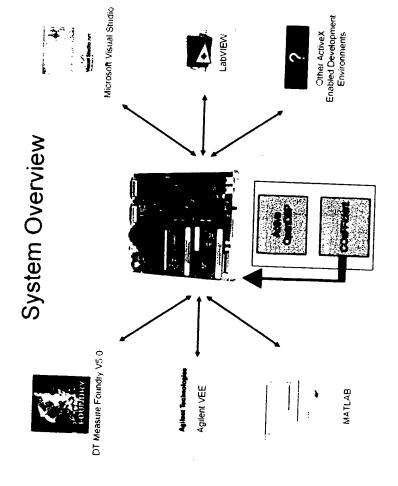
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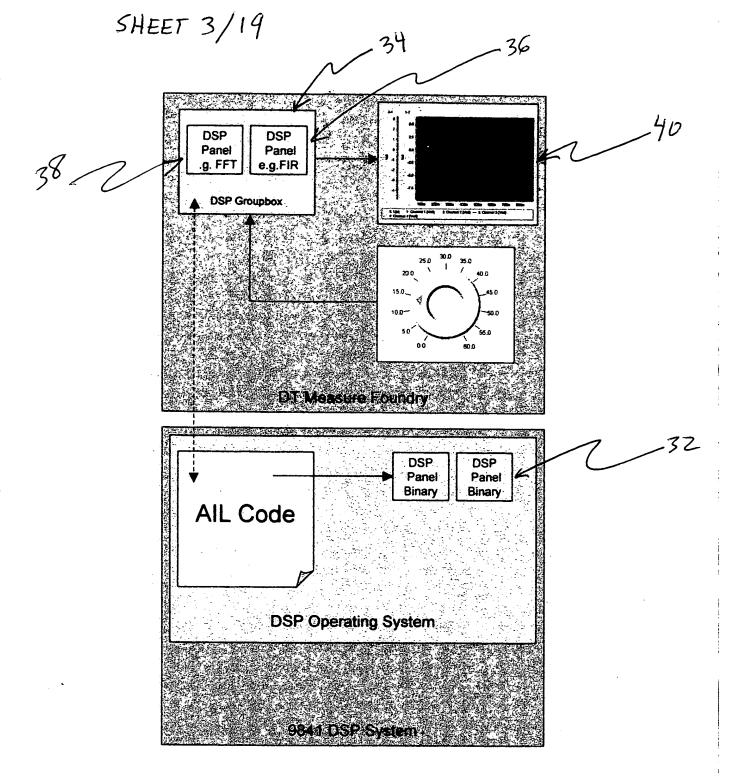
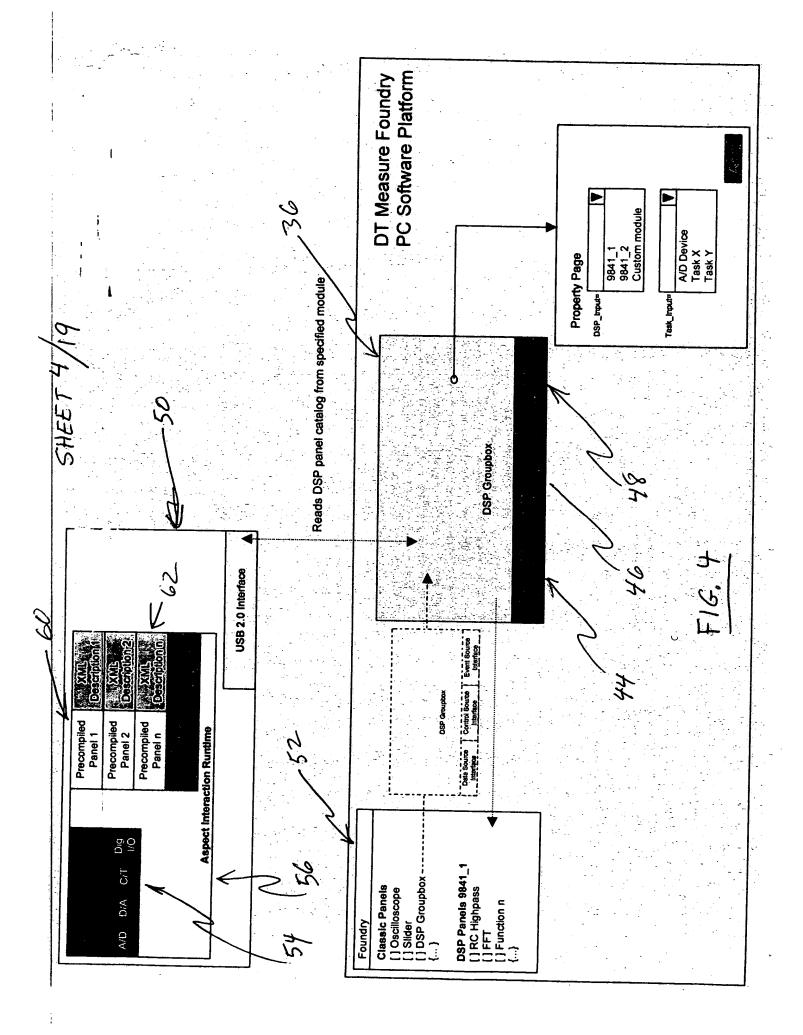
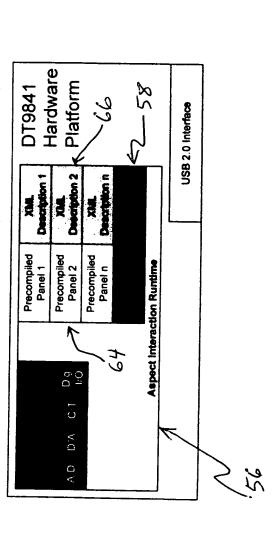


Fig. 3



DT Measure Foundry

Start Procedure



DT Measure Foundry PC Software Platform

Classic Panels
[] Oscilloscope
[] Slider
[] DSP Groupbox
{...}

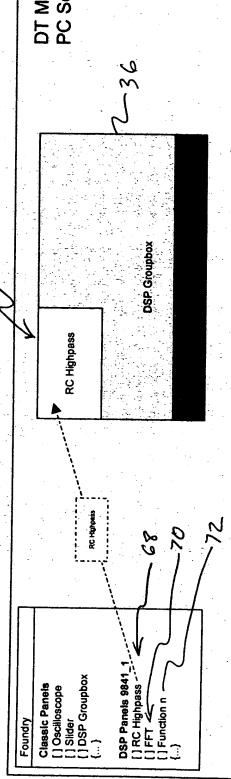
Foundry

Browses BPL's on harddisk and creates the classic DTMF panels $F \mid G_{\bullet} \leq 5$

SHEET 6/19

Putting a DSP Function Panel on a DSP Groupbox DT9841 Hardware Platform USB 2.0 Interface Precompiled Panel 1 Precompiled Panel 2 Precompiled Panel n Aspect Interaction Runtime C/T D/A AD

DT Measure Foundry PC Software Platform



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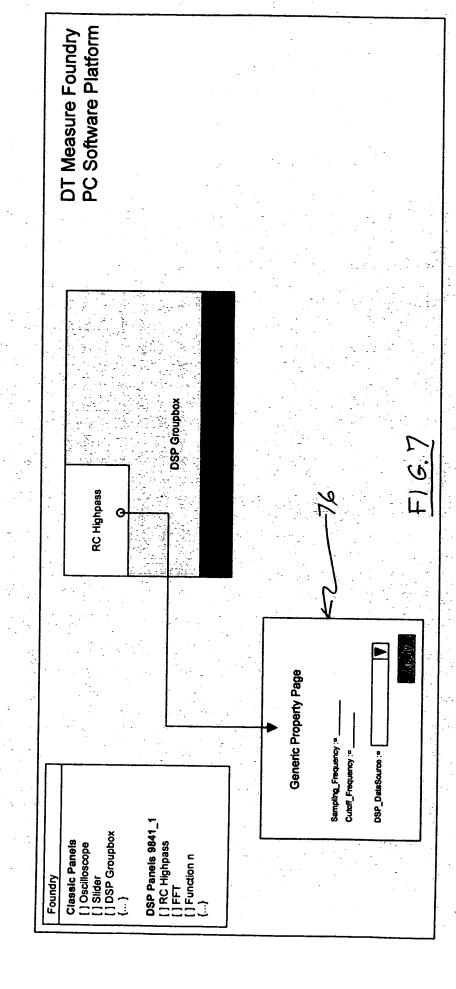
SHEET 7/19

Aspect interaction Runtime

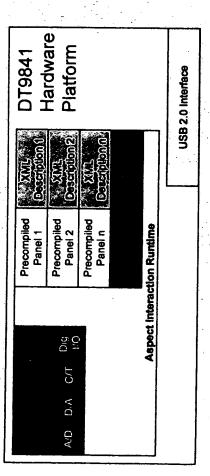
Aspect interaction Runtime

Panel 1 Description 1 Hardware Panel 2 Description 2 Miles Platform Panel 1 Description 2 Miles Platform Platform Panel 1 Description 2 Miles Platform Platform

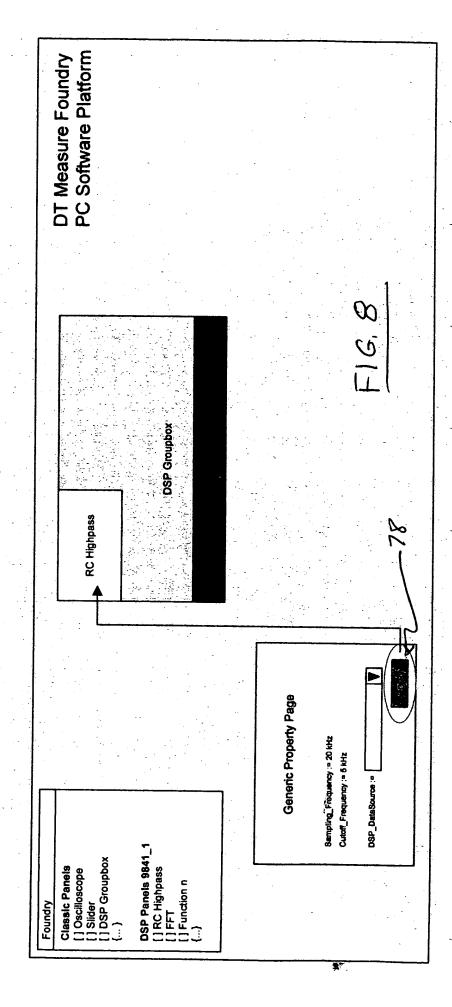
DT Measure Foundry Open the generic Property page



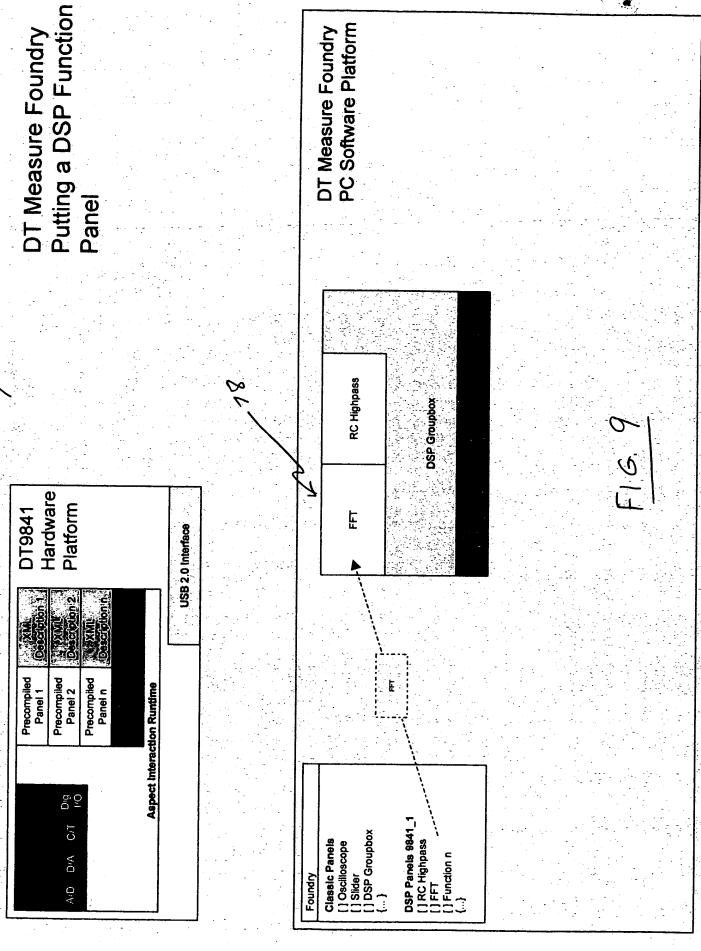
SHEET 8/19



DT Measure Foundry Send the configuration Data back to the component



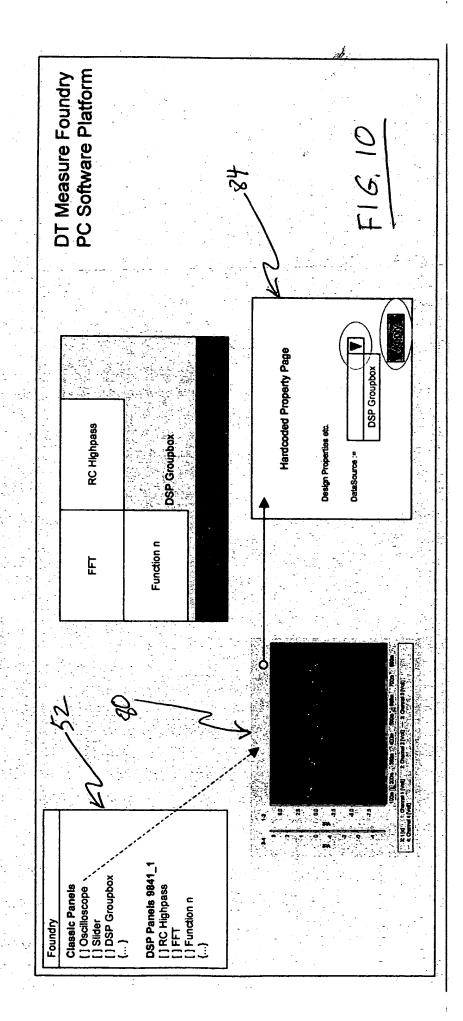
SHEET 4/19



SHEET 10/19

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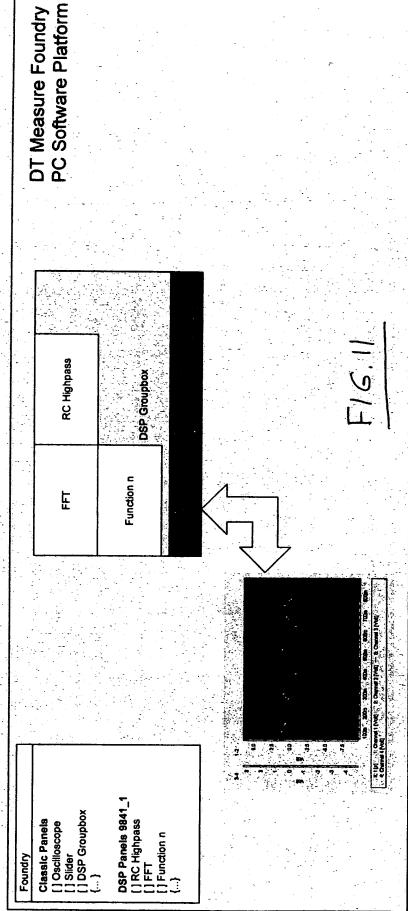
DT Measure Foundry Add Classic Component and Configure



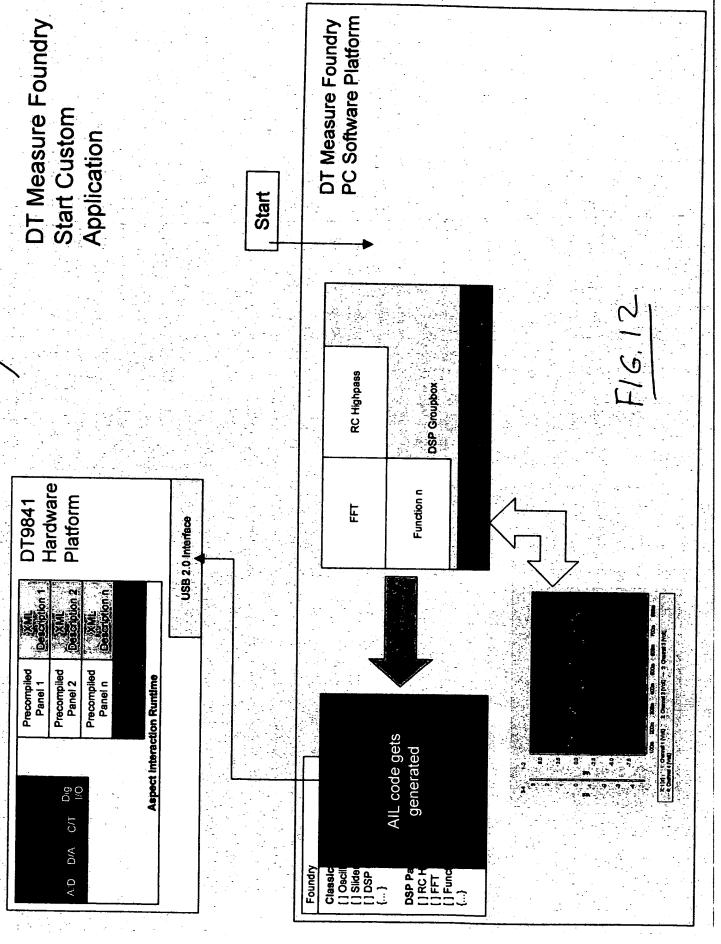
SHEET 11/19

DT Measure Foundry Add Classic Components

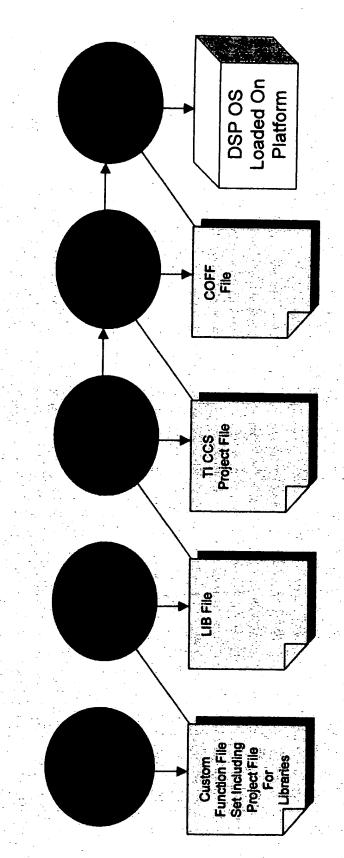
A:D D:A C/T D:B Precompiled Control Hardware Precompiled Control Platform Panel 1 Description Panel 1 Panel 2 Description Panel 1 Description Panel 1 Description Panel 2 Description Panel 1 Description Panel 2 Description Panel 2 Description Panel 3 Description Pane



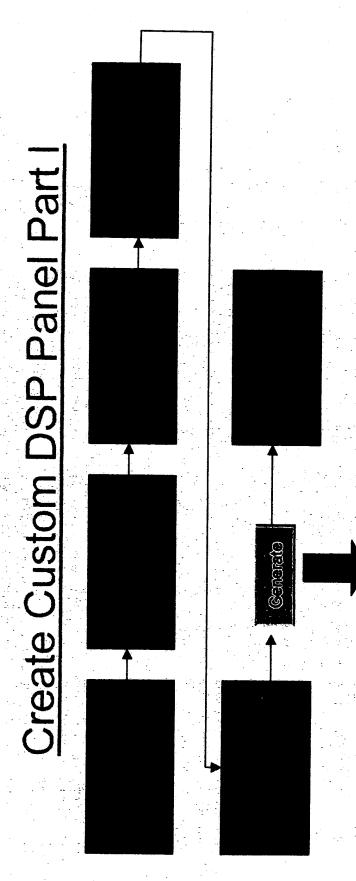
SHEET 12/14

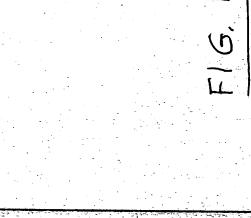


Overview



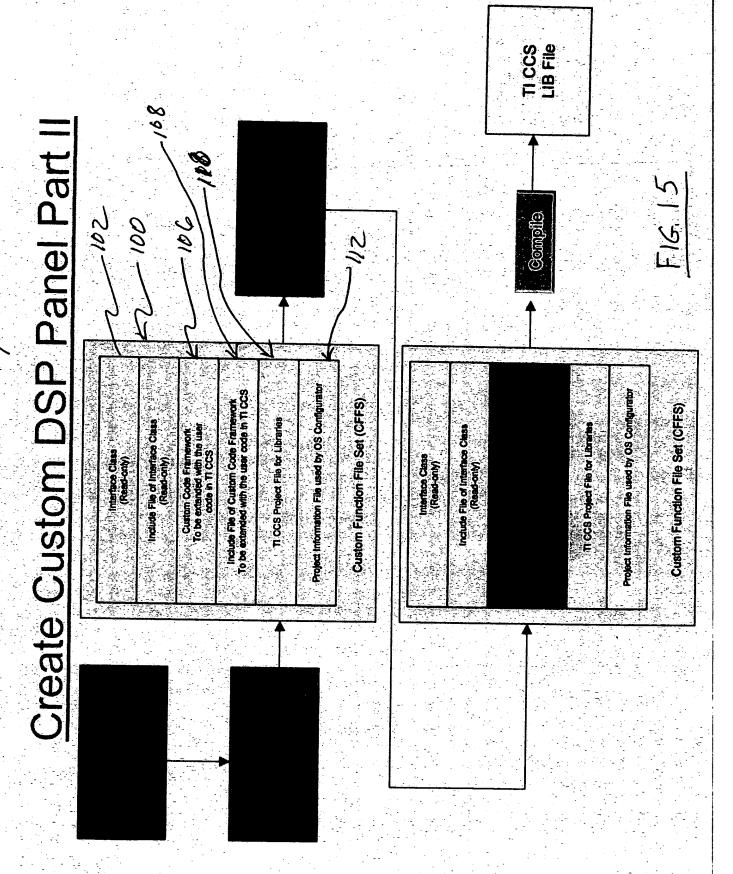
5 Steps are necessary to build a custom 9841 operating system Each step can be done manually or by using wizards





Project Information File used by OS Configurator

Custom Function File Set (CFFS)



SHEET 16/19

Finalization Event Client Trigger Counter Task Controller	Data Counter Value Pipe Digital Injud Host Connection
Trigger Counter Task Controller	Digital Input Host Connection
Counter Task Controller	Host Connection
Task Controller	
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puting Vector ar Function Se	
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SHEET 17/19

	Data Source Interface
	Control Interface
	Event Interface
	DSP Groupbox
	COFF File Loader Component
	Instrumentation Panel
Distribu	tion Wizard Extensions for Distribution of DSP Operating Systems (COFF)
	DTMF Implementation

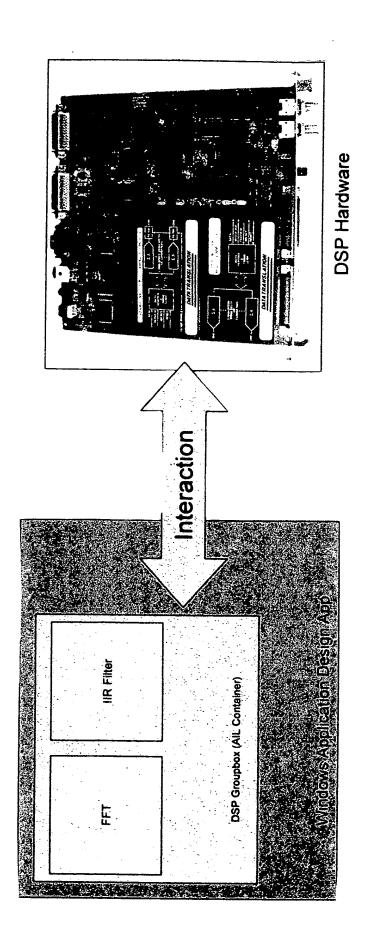
F16, 17

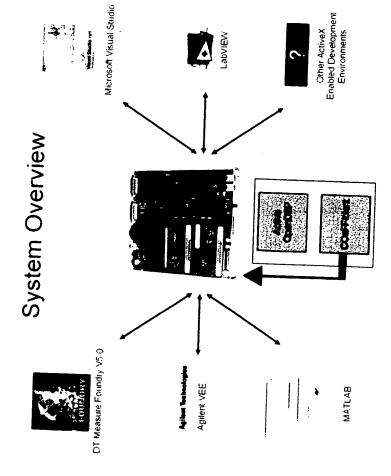
SHEET 18/19

Example Code TI DSP Express Competible Wrapper Temptate for Algorithm Standard Custom Framework Wizard OS Configurator
Custom Framework Wizerd
Custom Framework Wizerd
OS Configurator
OS Configurator
OS Configurator
OS Loader
Demonsts E. C. Lu
Dynamic Function Library

SHEET 19/19

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<u>.</u>	As	spect Interaction Lar (AILP)		···	
			.51	A/D	D/A
				LVDS	Dig. IC
	•	Resource Ma	nager		
					
		Instrumentation (RM)	Vlanage r	·. · .	
	Memory Mana	agement for Corr	ponent to Com	ponent Con	nections
[Frame N	Aanagement (Bu	fered Mode Da	ata Acquisitio	on)
		Core Class (CC)			· · · ·





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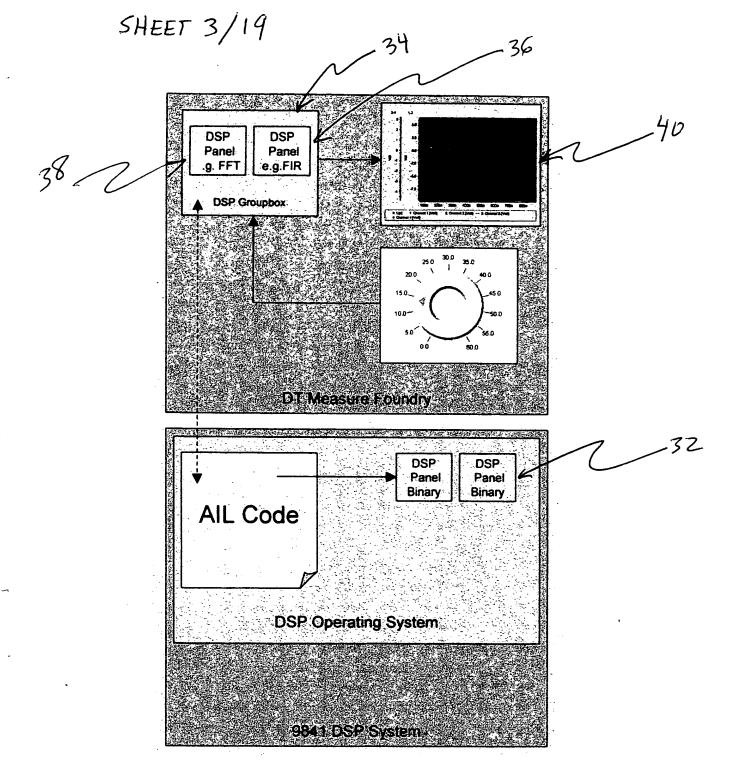
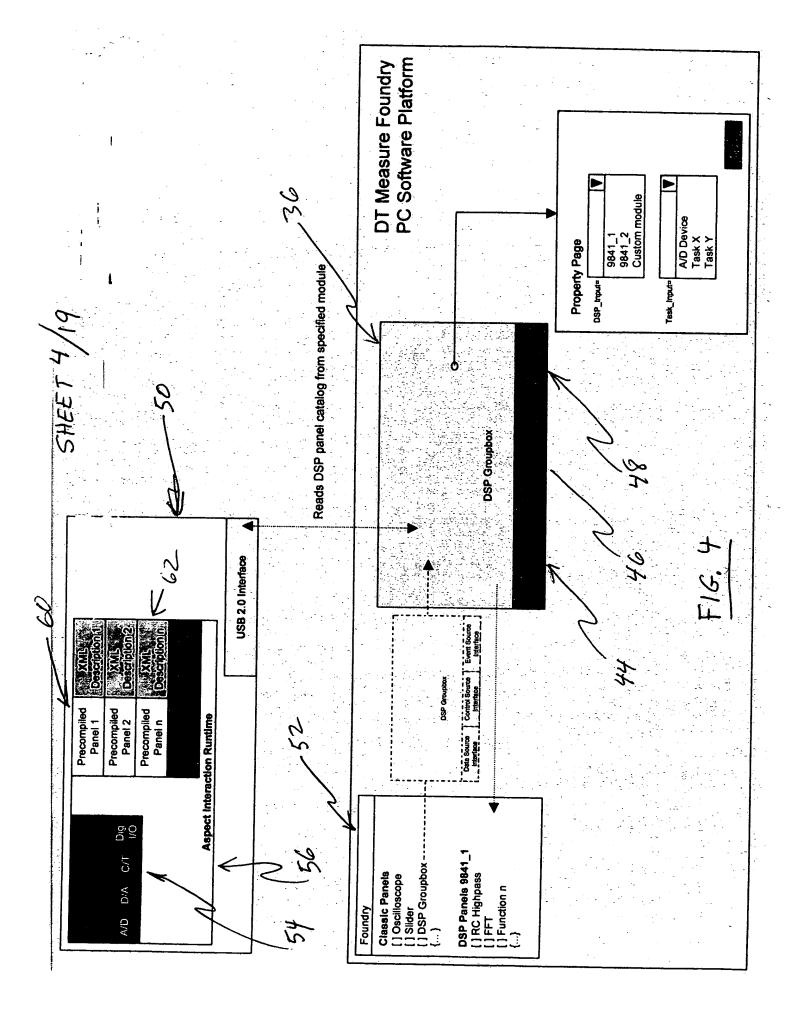
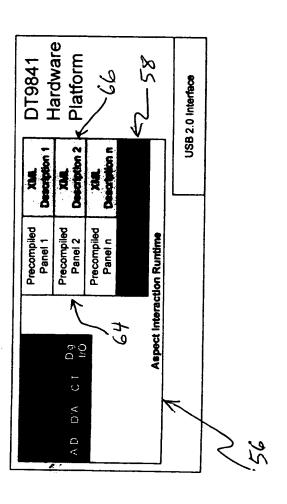


Fig. 3



DT Measure Foundry

Start Procedure



DT Measure Foundry PC Software Platform

Browses BPL's on harddisk and creates the classic DTMF panels

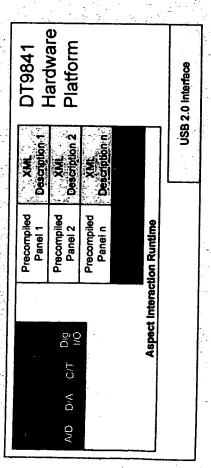
Classic Panels
[] Oscilloscope
[] Slider
[] DSP Groupbox
{...}

Foundry

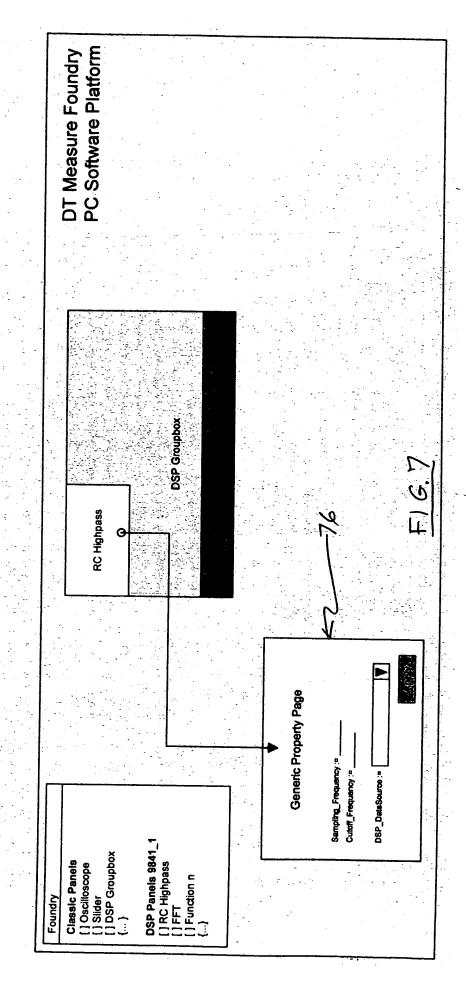
Putting a DSP Function Panel on a DSP Groupbox SHEET 6/19 Hardware DT9841 Platform USB 2.0 Interface Precompiled Panel 1 Precompiled Panel 2 Precompiled Panel n Aspect Interaction Runtime Dig I/O D:A A.D

DT Measure Foundry PC Software Platform RC Highpass 00 USP Panels 9841_1 [] RC Highpass - [] FFT <-[] Function n Classic Panels
[] Oscilloscope
[] Slider
[] DSP Groupbox Foundry

SHEET 7/19



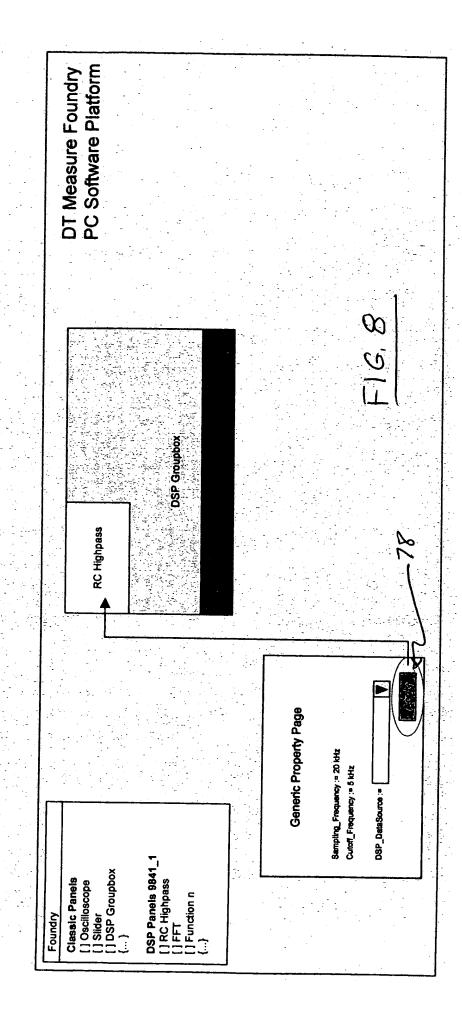
DT Measure Foundry Open the generic Property page



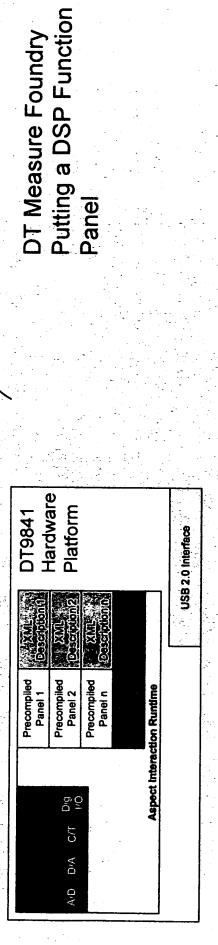
SHEET 8/19

A/D D/A C/T D/G Panel 1 Description 1 Hardware Panel 2 Description 2 Platform Panel 1 Description 2 Platform Panel n Description n Panel n Description n Des

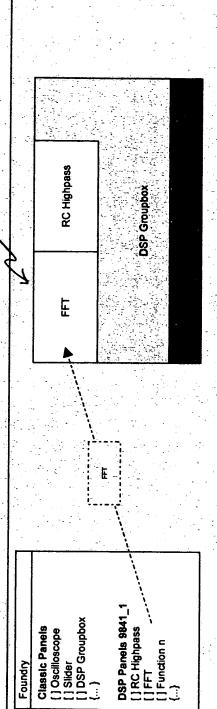
DT Measure Foundry Send the configuration Data back to the component



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DT Measure Foundry PC Software Platform

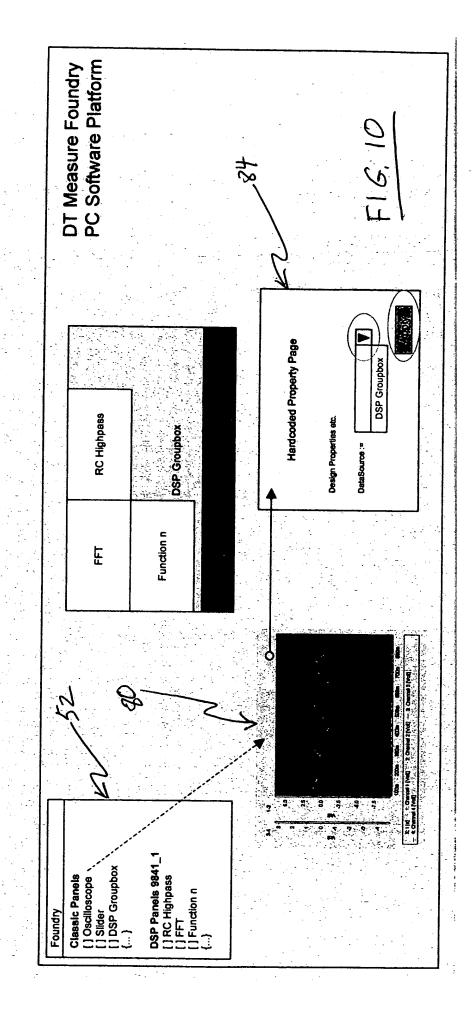


SHEET 10/19

Aspect Interaction Runtime

Precompiled XMI Hardware Precompiled XMI Panel 2 Description Platform Panel 0 Description Management Platform Panel 0 Description Management Panel 0 Descripti

DT Measure Foundry Add Classic Component and Configure



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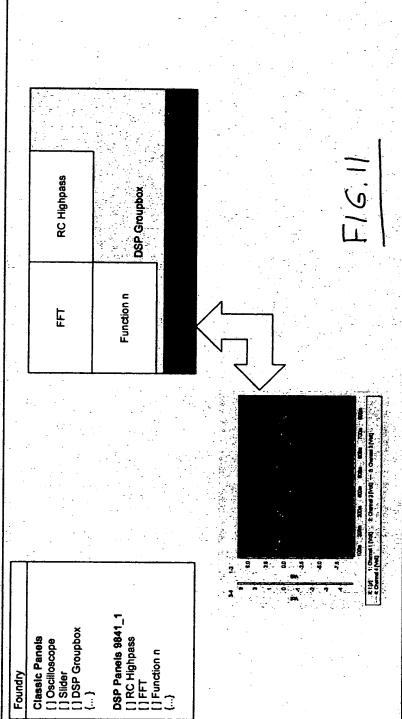
DT Measure Foundry Add Classic

Components

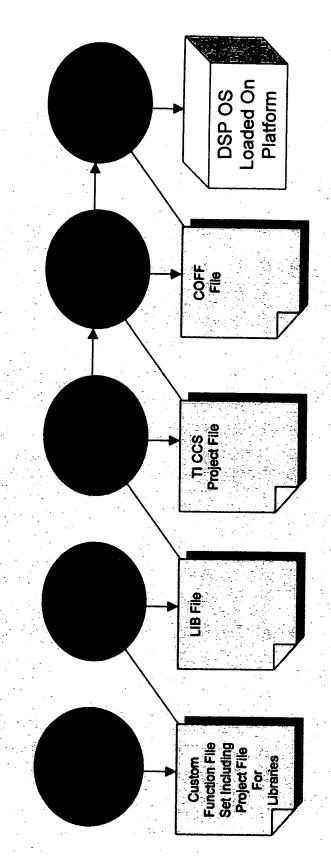
Aspect Interaction Runtime

Panel 1 Description | Panel 2 | Paccompiled | Panel 2 | Panel 3 | Panel 4 | Panel 4 | Panel 5 | Panel 5 | Panel 6 | Panel 7 | Pa

DT Measure Foundry PC Software Platform

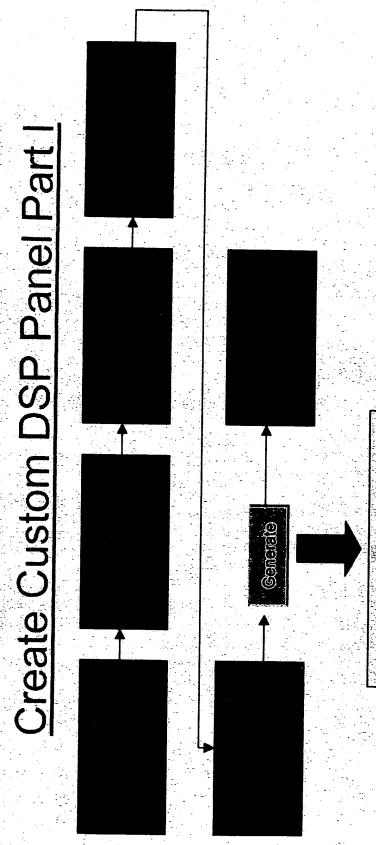


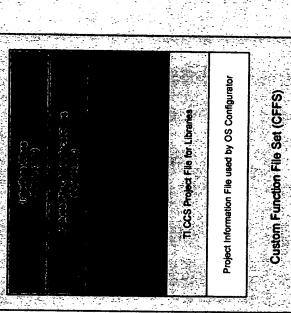
Overview



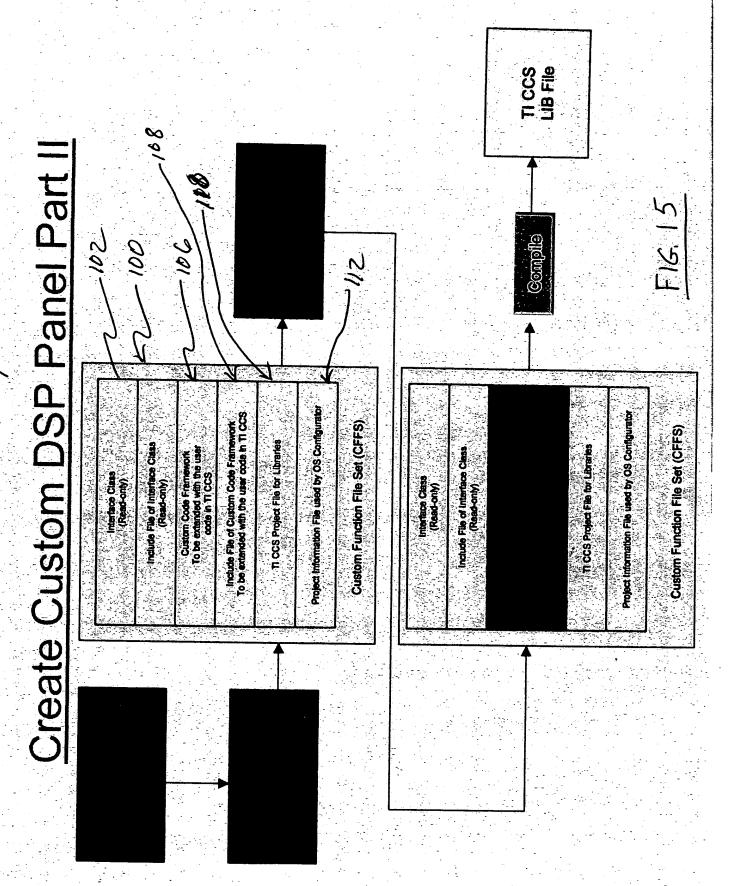
5 Steps are necessary to build a custom 9841 operating system Each step can be done manually or by using wizards

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SHEET 16/19

Comparator	D/A output single value (control line)	D/A output buffered signal generator
Initialization	Finalization	Data Counter
Action Counter	Event Client	Value Pipe
Hub	Trigger	Digital Input
Digital Output	Counter	Host Connection
Intertask Connection	Task Controller	
Real FFT	Forward Lettice Radix 2	+
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	Computing Vector L Similar Function Set	.ib or
Base Functi	ion Library	,

SHEET 17/19

	Data Source Interface
-	Control Interface
	Event Interface
	DSP Groupbox
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	COFF File Loader Component
	COTT THE CORDER COmponent
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	Instrumentation Panel
Di	istribution Wizard Extensions for Distribution of DSP Operating Systems (COFF)
	DTAC beauty and the
	DTMF Implementation

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Example Code	
TI DSP Express Competible Wrapper Temptate for Algorithm Standard	
Standard	
Custom Framework Wizard	
OS Configurator	
OS Loader	
OS Loeder	
Dynamic Function Library	,

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	Aspect Interaction Language Parser (AlLP)		
		C/T LVDS*	D/A Dig. IO
:	Resource Manager		
	Instrumentation Manager (BM)	E 1	
	Memory Management for Component to Compon	ent Conn	ections
	Frame Management (Buffered Mode Data A	Acquisition	۱)
	Core Classes (CC)	· · · · · · · · · · · · · · · · · · ·	